burn completely, or are exposed to heat (usually fire). Electrical appliances typically do not produce CO. These fuels include: Wood, coal, charcoal, oil, natural gas, gasoline, kerosene, and propane.

Common appliances are often sources of CO. If they are not properly main tained, are improperly ventilated, or malfunction, CO levels can rise quickly. CO is a real danger now that homes are more energy efficient. "Air-tight" nomes with added insulation, sealed windows, and other weatherproofing can "trap" CO inside.

SYMPTOMS OF CO POISONING

These symptoms are related to CO POISONING and should be discussed with ALL household members.

Mild Exposure: Slight headache, nausea, vomiting, fatigue ("flu-like" symptoms). Medium Exposure: Throbbing headache, drowsiness, confusion, fast heart rate. **Extreme Exposure:** Convulsions, unconsciousness, heart and lung failure. Exposure to Carbon Monoxide can cause brain damage, death.

IMPORTANT!

sures exposure to CO over time. It alarms if CO levels are extremely high in a short period of time, or if CO levels reach a certain minimum over a long period of time. The CO Alarm generally sounds an alarm before the onset of symptoms in average, healthy adults. Why is this important? Because you need to be warned of a potential CO problem while you can still react in time. In many reported cases of CO exposure, victims may be aware that they are not feeling well, but become disoriented and can no longer react well enough to exit the building or get help. Also, young children and pets may be the first affected. The average healthy adult might not feel any symptoms when the CO Alarm sounds. However, people with cardiac or respiratory problems, infants, unborn babies, pregnant mothers, or elderly people can be more quickly and severely affected by CO. If you experience even mild symptoms of CO poisoning, consult your doctor immediately

FINDING THE SOURCE OF CO AFTER AN ALARM Carbon monoxide is an odorless, invisible gas, which often makes it difficult to

locate the source of CO after an alarm. These are a few of the factors that can make it difficult to locate sources of CO: House well ventilated before the investigator arrives

- Problem caused by "backdrafting." Transient CO problem caused by special circumstances.
- Because CO may dissipate by the time an investigator arrives, it may be difficult to locate the source of CO. BRK Brands, Inc. shall not be obligated to pay for any carbon monoxide investigation or service call.

POTENTIAL SOURCES OF CO IN THE HOME

Fuel-burning appliances like: burning fireplace, gas kitchen Damaged or insufficient venting: clogged chimney opening.



Transient CO Problems: "transient" or on-again-off-again CO problems can be caused by outdoor conditions and other special circumstances

The following conditions can result in transient CO situations: 1. Excessive spillage or reverse venting of fuel appliances caused by outdoor

- conditions such as: Wind direction and/or velocity, including high, gusty winds. Heavy air in the vent pipes (cold/humid air with extended periods between cycles).
- Negative pressure differential resulting from the use of exhaust fans. Several appliances running at the same time competing for limited fresh · Vent pipe connections vibrating loose from clothes dryers, furnaces, or
- · Obstructions in or unconventional vent pipe designs which can amplify the above situations.
- Extended operation of unvented fuel burning devices (range, oven, fireplace). Temperature inversions, which can trap exhaust close to the ground.
- 4. Car idling in an open or closed attached garage, or near a home. These conditions are dangerous because they can trap exhaust in your home.
- Since these conditions can come and go, they are also hard to recreate during

HOW CAN I PROTECT MY FAMILY FROM CO POISONING?

A CO Alarm is an excellent means of protection. It monitors the air and sounds a loud alarm before Carbon Monoxide levels become threatening for average, healthy adults. A CO Alarm is not a substitute for proper maintenance of home appliances

To help prevent CO problems and reduce the risk of CO poisoning: • Clean chimneys and flues yearly. Keep them free of debris, leaves, and nests for proper air flow. Also, have a professional check for rust and corrosion, cracks, or separations. These conditions can prevent proper air movement and cause backdrafting. Never "cap" or cover a chimney in any way that would block air flow.

- Test and maintain all fuel-burning equipment annually. Many local gas or oil companies and HVAC companies offer appliance inspections for a nominal fee.
- · Make regular visual inspections of all fuel-burning appliances. Check appliances for excessive rust and scaling. Also check the flame on the burner and pilot lights. The flame should be blue. A yellow flame means fuel is not being burned completely and CO may be present. Keep the blower door on the furnace closed. Use vents or fans when they are available on all fuel-burning appliances. Make sure appliances are vented to the outside. Do not grill or barbecue indoors, or in garages or on
- Check for exhaust backflow from CO sources. Check the draft hood on an operating furnace for a backdraft. Look for cracks on furnace heat
- exchangers.
- · Check the house or garage on the other side of shared wall.
- Keep windows and doors open slightly. If you suspect that CO is escaping into your home, open a window or a door. Opening windows and doors can significantly decrease CO levels.

In addition, familiarize yourself with all enclosed materials. Read this manual in its entirety, and make sure you understand what to do if your

REGULATORY INFORMATION FOR

SMOKE/CO ALARMS REGULATORY INFORMATION FOR CO ALARMS WHAT LEVELS OF CO CAUSE AN ALARM?

Underwriters Laboratories Inc. Standard UL2034 requires residential CO Alarms to sound when exposed to levels of CO and exposure times as described below. They are measured in parts per million (ppm) of CO over UL2034 Required Alarm Points*:

 If the alarm is exposed to 400 ppm of CO, IT MUST ALARM BETWEEN 4 and 15 MINUTES. If the alarm is exposed to 150 ppm of CO, IT MUST ALARM BETWEEN 10 and 50 MINUTES.

If the alarm is exposed to 70 ppm if CO, IT MUST ALARM BETWEEN 60 and 240 MINUTES.

Approximately 10% COHb exposure at levels of 10% to 95% Relative Humidity (RH).

The unit is designed not to alarm when exposed to a constant level of 30 ppm for 30 days.

IMPORTANT!

CO Alarms are designed to alarm before there is an immediate life threat. Since you cannot see or smell CO, never assume it's not present.

 An exposure to 100 ppm of CO for 20 minutes may not affect average nealthy adults, but after 4 hours the same level may cause headaches

 An exposure to 400 ppm of CO may cause headaches in average, healthy adults after 35 minutes, but can cause death after 2 hours. Standards: Underwriters Laboratories Inc. Single and Multiple Station carbon

monoxide alarms UL2034. According to Underwriters Laboratories Inc. UL2034, Section 1-1.2: "Carbon monoxide alarms covered by these requirements are intended to respond to the presence of carbon monoxide from sources such as, but not limited to, exhaust

from internal-combustion engines, abnormal operation of fuel-fired appliances. and fireplaces. CO Alarms are intended to alarm at carbon monoxide levels below those that could cause a loss of ability to react to the dangers of Carbon Monoxide exposure." This CO Alarm monitors the air at the Alarm, and is designed to alarm before CO levels become life threatening. This allows you precious time to leave the house and correct the problem. This is only possible if Alarms are located, installed, and maintained as described in this manual.

Gas Detection at Typical Temperature and Humidity Ranges: The CO Alarm is not formulated to detect CO levels below 30 ppm typically. UL tested for false alarm resistance to Methane (500 ppm), Butane (300 ppm), Heptane (500 ppm), Ethyl Acetate (200 ppm), Isopropyl Alcohol (200 ppm) and Carbon Dioxide (5000 ppm). Values measure gas and vapor concentrations in parts per million. Audible Alarm: 85 dB minimum at 10 feet (3 meters).

REGULATORY INFORMATION FOR SMOKE ALARMS RECOMMENDED LOCATIONS FOR SMOKE ALARMS Installing Smoke Alarms in Single-Family Residences

The National Fire Protection Association (NFPA), recommends one Smoke Alarm on every floor, in every sleeping area, and in every bedroom. In new construction, the Smoke Alarms must be AC powered and interconnected. See "Agency Placement Recommendations" for details.

For additional coverage, it is recommended that you install a Smoke Alarm in all rooms, halls, storage areas, finished attics, and basements, where temperatures normally remain between 40° F (4° C) and 100° F (38° C). Make sure no door or other obstruction could keep smoke from reaching the Smoke Alarms More specifically, install Smoke Alarms:

• On every level of your home, including finished attics and basements

Inside every bedroom, especially if people sleep with the door partly or

In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each. If a hall is more than 40 feet long (12 meters),

At the top of the first-to-second floor stairway, and at the bottom

install a unit at each end.

of the basement stairway.

IMPORTANT! Specific requirements for Smoke Alarm installation vary from state to state and from region to region. Check with your local Fire Department for current requirements in your area. It is recommended AC or AC/DC units be interconnected for added protection. NEW CONSTRUCTION

EXISTING HOMES ADDITIONAL SMOKE ALARMS FOR BETTER COVERAGE BEDROOM KITCHEN DINING ROOM

INSTALLING SMOKE ALARMS IN MOBILE HOMES For minimum security install one Smoke Alarm as close to each sleeping area as possible. For more security put one unit in each room, Many older mobile home is not well insulated, or if you are unsure of the amount of insulation, it is important to install units on inside walls only. Smoke Alarms should be installed where temperatures normally remain between 40° F (4° C) and 100° F (38° C).

AGENCY PLACEMENT RECOMMENDATIONS IMPORTANT!

shall cause the operation of all Alarms within the dwelling

This equipment should be installed in accordance with NFPA (National Fire Protection Association) 72 and 101. National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269-9101. Additional local building and regulatory codes may apply in your area. Always check compliance requirements before beginning any installation

Standards: Underwriters Laboratories Inc. Single and Multiple Station Smoke NFPA 72 (National Fire Code)

Smoke Alarms shall be installed in each separate sleeping room, outside each sleeping area in the immediate vicinity of the bedrooms and on each additional story of the family living unit, including basements and excluding crawl spaces and unfinished attics In new construction, Alarms shall be so arranged that operation of any one Alarm

Smoke Detection-Are More Smoke Alarms Desirable? The required number of Smoke Alarms might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required Smoke Alarms. For this reason, it is recommended that the householder consider the use of additional Smoke Alarms for those areas for increased protection. The additional areas include the basement, bedrooms, dining room, furnace room, utility room, and hallways not protected by the required Smoke Alarms. The installation of Smoke Alarms in kitchens, attics (finished or unfinished), or garages is not normally recommended, as these locations occasionally experience conditions that can result in improper operation.

California State Fire Marshal (CSFM) Early warning detection is best achieved by the installation of fire detection equipment in all rooms and areas of the household as follows: A Smoke Alarm installed in each separate sleeping area (in the vicinity, but outside bedrooms), and Heat or Smoke Alarms in the living rooms, dining rooms, bedrooms, kitchens, hallways, finished attics, furnace rooms, closets, utility and storage rooms, basements, and attached garages

This Smoke/CO Alarm is intended for residential use. It is not intended for use in industrial applications where Occupational Safety and Health Administration (OSHA) requirements for Carbon Monoxide Alarms must be met. The Smoke Alarm portion of this device is not intended to alert hearing impaired residents Special purpose Smoke Alarms should be installed for hearing impaired resi dents (CO Alarms are not yet available for the hearing impaired)

Smoke/CO Alarms may not waken all individuals. Practice the escape plan at least twice a year, making sure that everyone is involved - from kids to grandparents. Allow children to master fire escape planning and practice before holding a fire drill at night when they are sleeping. If children or others do not readily waken to the sound of the Smoke/CO Alarm, or if there are infants or family members with mobility limitations, make sure that someone is assigned assist them in fire drill and in the event of an emergency. It is reco that you hold a fire drill while family members are sleeping in order to deter mine their response to the sound of the Smoke/CO Alarm while sleeping and to termine whether they may need assistance in the event of an emergency. Smoke/CO Alarms cannot work without power. Battery operated units cannot work if the batteries are missing, disconnected or dead, if the wrong type of bat teries are used, or if the batteries are not installed correctly. AC units cannot work a power line or at a power station, electrical fire that burns the electrical wires

etc.) If you are concerned about the limitations of battery or AC power, install both This Smoke/CO Alarm will not sense smoke or CO that does not reach the sensors. It will only sense smoke or CO at the sensor. Smoke or CO may be present in other areas. Doors or other obstructions may affect the rate at which CO or smoke reaches the sensors. If bedroom doors are usually close at night, we recommend you install an alarm device (Combination CO and

oke Alarm, or separate CO Alarms and Smoke Alarms) in each bedroom This Smoke/CO Alarm may not sense smoke or CO on another level of

the home. Example: This alarm device, installed on the second floor, may not

sense smoke or CO in the basement. For this reason, one alarm device may

not give adequate early warning. Recommended minimum protection is one alarm device in every sleeping area, every bedroom, and on every level of your home. Some experts recommend battery powered Smoke and CO Alarms be used in conjunction with interconnected AC powered Smoke Alarms. For details, see "About Smoke Alarms" for details.

pholic beverages. This is especially true if the door is closed or only p who are hearing impaired.

children playing with matches, or fires caused by violent exploesulting from escaping gas.

This Smoke/CO Alarm is not a substitute for life insurance. Though this Smoke/CO Alarm warns against increasing CO levels or the presence of smoke, BRK Brands, Inc. does not warrant or imply in any way that they will rotect lives. Homeowners and renters must still insure their lives. This Smoke/CO Alarm has a limited life. Although this Smoke/CO Alarm and all of its parts have passed many stringent tests and are designed to be as reliable as possible, any of these parts could fail at any time. Therefore, you operating properly.

TROUBLESHOOTING GUIDE Problem... You should... Install two new AA batteries*. Horn "chirps" about once per minute: Low battery warning. Horn does three rapid "chirps" every minute; **Voice:** "Detector error in [Location, example Units under warranty should be returned to Device is not working properly, and needs to be nanufacturer for replacement. See "Limited "Kitchen"], please see manual" repeated ever Warranty" for details. hours: LED has 3 rapid flashes with "chirps Carbon Monoxide Alarm ONLY: CO Alarm goes back into alarm 4 minutes after you CO levels indicate a potentially dangerous situation. IF YOU ARE FEELING SYMPTOMS OF CO POISONING, EVACUATE your home and call 911 or the Fire Department. Refer to "If The CO Alarm Sounds" for details. CO Alarm sounds frequently even though no high The CO Alarm may be improperly located. Refer to "Where to Install This Alarm" for details. elocate your Alarm. If frequent alarms continue, ave home rechecked for potential CO problems. fou may be experiencing an intermittent CO problem. Smoke Alarm ONLY: Smoke Alarm sounds when no smoke is visible. Unwanted alarm may be caused by non-emergency Silence Alarm using remote control or manual button: clean the Alarm's cover with a soft, clean source like cooking smoke cloth. If frequent unwanted alarms continue, relocate your Alarm. Alarm may be too close to a kitchen, cooking appliance, or steamy bathroom *For a list of acceptable replacement batteries, see "Regular Maintenance."

LIMITED WARRANTY

BRK Brands, Inc., ("BRK") the maker of First Alert® brand products warrants that for a period of five years from the date of purchase, this product will be free from defects in material and workmanship. BRK, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

If you have questions that cannot be answered by reading this manual, call Consumer Affairs at 1-800-323-9005, M-F 7:30 a.m. to 5:00 p.m. (CST)

nis warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is quired to obtain warranty performance. BRK dealers, service centers, or retail stores selling BRK products do not have the right to alter, modify or any way change the

This warranty does not cover normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, use on improper voltage or current, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than BRK or an authorized service center. Further, the warranty does not cover Acts of God, such as fire, flood, hurricanes and tornadoes or any batteries that are included with this unit. BRK shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable

aw, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Some states, provinces or urisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province How to Obtain Warranty Service Service: If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-323-9005,

:30 AM - 5:00 PM Central Standard Time, Monday through Friday. To assist us in serving you, please have the model number and date of purchase available when calling

25 Spur Drive, El Paso, TX 79906 Battery: BRK Brands, Inc. make no warranty, express or implied, written or oral, including that of merchantability or fitness for any particular purpose with respect

For your records, please record: First Alert® is a registered trademark of the First Alert Trust. Where Purchased: Date Purchased:

Printed in Mexico M08-0048-006 **Q** 10/06

ABOUT SMOKE ALARMS Battery (DC) operated Smoke Alarms: Provide protection even when

First Alert

Separate sensors to detect smoke

Voice with programmable location

Separate audible and visual signals to indicate alarm levels

Remote infrared Test/Silence and

IMPORTANT! PLEASE READ CAREFULLY AND SAVE.

This user's manual contains important information

about your Combination Carbon Monoxide & Smoke Alarm's operation. If you are installing this Alarm for

use by others, you must leave this manual-or a copy

M08-0048-006 Q 10/06 Printed in Mexico

Step By Step Guide to Programming This Alarm .

What You Will See and Hear With This Alarm

Where This Alarm Should NOT Be Installed

What To Do First-Identify The Type Of Alarm

Powered by two "AA" batteries

Side access drawer for easy

battery replacement

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General Limitations Of Smoke/CO Alarms

BRK Brands, Inc., 3901 Liberty Street Road, Aurora, IL 60504-8122 Consumer Affairs: (800) 323-9005 • www.firstalert.com

paper burning in a wastebasket, or a grease fire in the kitchen.

All First Alert® Smoke Alarms conform to regulatory requirements,

including UL217 and are designed to detect particles of combustion. Smoke particles of varying number and size are produced in all fires.

technology at detecting small particles, which tend to be produced in greater amounts by flaming fires, which consume combustible materials rapidly and spread quickly. Sources of these lifes may include

technology at detecting large particles, which tend to be produced in greater amounts by smoldering fires, which may smolder for hours before bursting into flame. Sources of these fires may include cigarettes

For maximum protection, use both types of Smoke Alarms on each level

materials properly. Never smoke in bed. 2) Keep matches or lighters away from

children; 3) Store flammable materials in proper containers; 4) Keep electrical appliances in good condition and don't overload electrical circuits; 5) Keep

stoves, barbecue grills, fireplaces and chimneys grease- and debris-free;

6) Never leave anything cooking on the stove unattended; 7) Keep portable heaters and open flames, like candles, away from flammable materials;

Keep alarms clean, and test them weekly. Replace alarms immediately if the

Follow safety rules and prevent hazardous situations: 1) Use smoking

lonization technology is generally more sensitive than photoelectric

Photoelectric technology is generally more sensitive than ionization

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of smoke or CO

and CO; the two alarm systems

eatures:

USER'S MANUAL

LISTED

Model SCO

COMBINATION CARBON MONOXIDE & SMOKE ALARM

WITH VOICE & LOCATION AND

REMOTE CONTROL TEST/SILENCE

electricity fails, provided the batteries are fresh and correctly installed. Units are easy to install, and do not require professional installation. AC powered Smoke Alarms: Can be interconnected so if one unit senses moke, all units alarm. They do not operate if electricity fails. AC with battery (DC) back-up: will operate if electricity fails, provided the batteries are fresh and correctly installed. AC and AC/DC units must be installed by a qualified electrician.

Smoke/CO Alarms for Solar or Wind Energy users and battery backup with true or pure sine wave inverters. Operating this Alarm with most battery powered UPS (uninterruptible power supply) products or square wave or uasi sine wave" inverters will damage the Alarm. If you are not sure about your inverter or UPS type, please consult with the manufacturer to verify. Smoke Alarms for the hearing impaired: Special purpose Smoke Alarms should be installed for the hearing impaired. They include a visual alarm and an audible alarm horn, and meet the requirements of the Americans With Disabilities Act. Can be interconnected so if one unit senses smoke, all units alarm.

Smoke alarms are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose All these Smoke Alarms are designed to provide early warning of fires if located. installed and cared for as described in the user's manual, and if smoke reaches the Alarm. If you are unsure which type of Smoke Alarm to install, refer the National Fire Protection Association (NFPA) Standard 72 (National Fire Alarm Code) and NFPA 101 (Life Safety Code). National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269-9101. Local building codes may also require specific units in new construction or in different areas of the home.

SPECIAL COMPLIANCE CONSIDERATIONS AWARNING!

This unit alone is not a suitable substitute for complete fire detection systems in places housing many people—like apartment buildings, condominiums, hotels, motels, dormitories, hospitals, long-term health care facilities, nursing homes, day care facilities, or group homes of any kind—even if they were once single-family homes. It is not a suitable substitute for complete fire detection systems in warehouses, industrial facilities, commercial buildings, and special-purpose non-residential buildings which require special fire detection and alarm systems. Depending on the building codes in your area, this unit may be used to provide additional protection in these facilities.

The following information applies to all five types of buildings listed below: In new construction, most building codes require the use of AC or AC/DC ered Smoke Alarms only. AC, AC/DC, or DC powered Smoke Alarms ca be used in existing construction as specified by local building codes. Refer to NFPA 72 (National Fire Alarm Code) and NFPA 101 (Life Safety Code), local building codes, or consult your Fire Department for detailed fire protection requirements in buildings not defined as "households." 1. Single-Family Residence: Single family home, townhouse. It is recommend-

ed this unit be installed on every level of the home, in every bedroom, and in 2. Multi-Family or Mixed Occupant Residence: Apartment building, condominium. This unit is suitable for use in individual apartments or condos provided a primary fire detection system already exists to meet fire detection requirements in common areas like lobbies, hallways, or porches. Using this

unit in common areas may not provide sufficient warning to all residents or meet local fire protection ordinances/regulations. 3 Institutions: Hospitals, day care facilities, long-term health care facilities s unit is suitable for use in individual patient sleeping/resi provided a primary fire detection system already exists to meet fire detection equirements in common areas like lobbies, ballways, or porches. Using this nit in common areas may not provide sufficient warning to all residents or

meet local fire protection ordinances/regulations. 4. Hotels and Motels: Also boarding houses and dormitories. This unit is suitable for use inside individual sleeping/resident rooms, provided a primary fire detection system already exists to meet fire detection requirements in common areas like lobbies, hallways, or porches. Using this unit in common areas may not provide sufficient warning to all residents or meet local fire rotection ordinances/regulations.

5. Warehouses/Commercial Buildings: DO NOT use this Smoke/CO Alarm in warehouses, industrial or commercial buildings, special-purpose non-residential buildings, RVs, boats, or airplanes. This Smoke/CO Alarm is specifically designed for residential use, and may not provide adequate protection in non-residential applications.

GENERAL LIMITATIONS OF SMOKE/CO ALARMS

Smoke/CO Alarms may not be heard. The alarm horn loudness meets or exceeds current UL standards of 85 dB at 10 feet (3 meters). However, if the Smoke/CO Alarm is installed outside the bedroom, it may not wake up a sound sleeper or one who has recently used drugs or has been drinking open. Even persons who are awake may not hear the alarm horn if the sound s blocked by distance or closed doors. Noise from traffic, stereo, radio, television, air conditioner, or other appliances may also prevent alert persons from hearing the alarm horn. This Smoke/CO Alarm is not intended for people

The Alarm may not have time to alarm before the fire itself causes damage, injury, or death, since smoke from some fires may not reach the unit immediately. Examples of this include persons smoking in bed,

This Smoke/CO Alarm is not foolproof. Like all other electronic devices, this Smoke/CO Alarm has limitations. It can only detect smoke or CO that reaches the sensors. It may not give early warning of the source of smoke or CO is in a remote part of the home, away from the alarm device.

are not working properly. Smoke Alarms that do not work cannot alert you to a fire. Keep at least one working fire extinguisher on every floor, and an additional one in the kitchen. Have fire escape ladders or other reliable means of escape from an upper floor in case stairs are blocked **BASIC SAFETY INFORMATION** IMPORTANT! This Smoke/CO Alarm is approved for use in single-family esidences. It is NOT designed for marine or RV use ACAUTION! This combination Smoke/Carbon Monoxide Alarm has two separate alarms. The CO Alarm is not designed to detect fire or any other gas. It will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas. The Smoke Alarm will only indicate the presence of smoke that reaches the sensor. The Smoke Alarm is not designed to sense gas, heat or . This Smoke/CO Alarm cannot operate without working batteries. Removing the batteries for any reason, or failing to replace the batteries at the end of their service life, removes your protection NEVER ignore any alarm. See "If Your Smoke/CO Alarm Sounds" for more information on how to respond to an alarm. Failure to respond can result in injury or death. . The Silence Features are for your convenience only and will not correct a problem. See "Using the Silence Features" for details. Always check your home for a potential problem after any alarm. Failure to do so can result in injury or death. • Test this Smoke/CO Alarm once a week. If the Alarm ever fails to

	test correctly, have it replaced immediately! If the Alarm is not working properly, it cannot alert you to a problem.
•	This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure CO levels in compliance with Occupational Safety and Health Administration (OSHA) commercial or industrial standards. Individuals with medical conditions that may make them more sensitive to carbon monoxide may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 ppm. For additional information on carbon monoxide and your medical condition contact your physician.

STEP BY STEP GUIDE TO PROGRAMMING THIS ALARM

For First Time and When Changing Batteries Alarm Will Say:

1. Insert batteries (2. AA batteries).

use vour IR remote control's

channel or volume button.

moon battorioo (±, / v r battorioo).	Monoxide and Smoke Alarm." "No location programmed" if <i>first time</i> or "[Location, example: "Kitchen"] location programmed" when changing batteries. "To select location, press and hold test button now."
Press & Hold Test Button, or use your IR remote control's channel or volume button, if you would like to program the location or change the location of the Alarm. Release button after Alarm responds.	"To save location, press and hold test button after location is heard." Alarm will speak list of locations (see below).
3. After you hear the location of where you are placing the Alarm, Press & Hold the Test Button or	"[Location, example: "Kitchen"] location saved." If no location is chosen: "No location

Your Alarm has now been programmed for the location of your choice. Available locations: Basement Child's Bedroom Hallway Living Room Dining Room Master Bedroom No Location

"Welcome, First Alert Carbon

WHAT YOU WILL SEE AND HEAR WITH THIS ALARM

Under Normal Operations Power/Smoke LED: Flashes Green once a Voice: Silent Horn: Silent CO LED: Off When You Test the Alarm Voice: "Testing." "Warning, evacuate smoke in [Location, example:

"Kitchen"]. Evacuate. Horn: 3 beeps, pause, 3 beeps, voice Power/Smoke LED: Flashes Red CO LED: Off followed by

Voice: "Warning, evacuate carbon monoxide in [Location, example "Kitchen"

1. Evacuate." Horn: 4 beeps, pause, 4 beeps, voice

If Battery Becomes Low or is Missing

CO LED: Flashes Red

Voice: "Replace battery in [Location, example "Kitchen"]." Repeated every 5 hours Horn: chirps once a minute Power/Smoke LED: Flashes approximately once a minute

CO LED: Off If Alarm is Not Operating Properly

Voice: "Detector error in [Location, example "Kitchen"], please see manual." Repeated every 5 hours Horn: Three rapid chirps every minute Power/Smoke LED: Flashes approximately once a minute

CO LED: Off Alarm Levels of CO are Detected

Voice: "Warning, evacuate carbon monoxide in [Location, example "Kitchen"]. Evacuate." "____ ppm." Horn: 4 beeps, pause, 4 beeps, voice* Power/Smoke LED: Off CO LED: Flashes Red

*NOTE: If unit goes into CO alarm, the regular 4 beeps-brief pause cycle will repeat for four minutes. After four minutes, the pause will increase to one minute.

Voice: "Warning, evacuate smoke in [Location, example: "Kitchen"]. Evacuate. Horn: 3 beeps, pause, 3 beeps, voice

Power/Smoke LED: Flashes Red CO LED: Off

Smoke Alarm is Silenced Voice: Silent Voice: Silent. Horn: Off Horn: Off Power/Smoke LED: Flashes Red Power/Smoke LED: Off CO LED: Off CO LED: Flashes Red

INSTALLATION

WHERE TO INSTALL THIS ALARM Minimum coverage for Smoke Alarms, as recommended by the National Fire

Protection Association (NFPA), is one Smoke Alarm on every floor, in every sleeping area, and in every bedroom (See "Regulatory Information For Smoke Alarms" for details on the NFPA recommendations). For CO Alarms, the National Fire Protection Association (NFPA) recommends that a CO Alarm should be centrally located outside of each separate sleeping area in the immediate vicinity of the bedrooms. For added protection, install additional CO Alarms in each separate bedroom, and on every level of your

NOTE: For added protection, install an additional Smoke/CO Alarm at least 5 feet (4.6 meters) away from the furnace or fuel burning heat source where possible. In smaller homes or in manufactured homes where this distance cannot be maintained, install the Alarm as far away as possible from the furnace or other harm the Alarm, but may increase the frequency of unwanted alarms. In general, install combination Smoke and Carbon Monoxide Alarms:

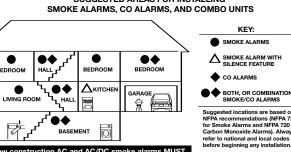
 On every level of your home, including finished attics and basements. Inside every bedroom, especially if people sleep with the door partly or

In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each. If a hall is more than 40 feet (12 meters) long,

install a unit at each end. At the top of first-to-second floor stairs.

 At the bottom of the basement stairs. For additional coverage, install Alarms in all rooms, halls, and storage areas, where temperatures normally remain between 40° F and 100° F (4° C and 38° C).

Recommended Placement SUGGESTED AREAS FOR INSTALLING



When installing on the wall, the top edge of Smoke Alarms should be

- en 4 inches (102 mm) and 12 inches (305 mm) from the wall/ceiling line. • When installing on the ceiling, place the alarm as close to the center as
- possible. In either case, install at least 4 inches (102 mm) from where the wall and ceiling meet. See "Avoiding Dead Air Spaces" for more information NOTE: For any location, make sure no door or other obstruction could keep

carbon monoxide or smoke from reaching the Alarm Installing Smoke/CO Alarms in Mobile Homes For minimum security install one Smoke/CO Alarm as close to each sleeping area as possible. For more security, put one unit in each room. Many mobile homes (especially those built before 1978) have little or no insu

of insulation, it is important to install units on inside walls only.

WHERE THIS ALARM SHOULD NOT BE INSTALLED Do NOT locate this Smoke/CO Alarm

If your mobile home is not well insulated or if you are unsure of the amount

- In a location where it could be easily triggered when using your remote to operate your TV. VCR. etc.
- In garages, furnace rooms, crawl spaces and unfinished attics. Avoid extremely dusty, dirty or greasy areas.
- Where combustion particles are produced. Combustion particles form when something burns. Areas to avoid include poorly ventilated kitchens, garages, and furnace rooms. Keep units at least 20 feet (6 meters) from the sources of combustion particles (stove, furnace, water heater, space heater if possible. In areas where a 20-foot (6 meter) distance is not possible – in modular, mobile, or smaller homes, for example – it is recommended the Smoke Alarm be placed as far from these fuel-burning sources as possible. The placement recommendations are intended to keep these Alarms at a reasonable distance from a fuel-burning source, and thus
- Within 5 feet (1.5 meters) of any cooking appliance. In air streams near kitchens. Air currents can draw cooking smoke into the smoke sensor and cause unwanted alarms. In extremely humid areas. This Alarm should be at least 10 feet (3 meters)
- from a shower, sauna, humidifier, vaporizer, dishwasher, laundry room, utility room, or other source of high humidity. In direct sunlight. In turbulent air, like near ceiling fans or open windows. Blowing air may prevent CO or smoke from reaching the sensors.

reduce "unwanted" alarms. Unwanted alarms can occur if a Smoke Alarm is placed directly next to a fuel-burning source. Ventilate these areas as

- In areas where temperature is colder than 40° F (4° C) or hotter than 100° F (38° C) These areas include non-airconditioned crawl spaces, unfinished attics, uninsulated or poorly insulated ceilings, porches, and garages.
- In insect infested areas. Insects can clog the openings to the sensing • Less than 12 inches (305 mm) away from fluorescent lights. Electrical "noise" can interfere with the sensor.

• In "dead air" spaces. See "Avoiding Dead Air Spaces". **AVOIDING DEAD AIR SPACES**

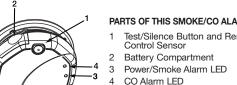
much as possible.

"Dead air" spaces may prevent smoke from reaching the Smoke/CO Alarm. To avoid dead air spaces, follow installation recommendations below. On ceilings, install Smoke/CO Alarms as close to the center of the ceiling as possible. If this is not possible, install the Smoke/CO Alarm at least 4 inches (102 mm) from the wall or corner. For wall mounting (if allowed by building codes), the top edge of Smoke/CO Alarms should be placed between 4 inches (102 mm) and 12 inches (305 mm)

from the wall/ceiling line, below typical "dead air" spaces. On a peaked, gabled, or cathedral ceiling, install first Smoke/CO Alarm within 3 feet (0.9 meters) of the peak of the ceiling, measured horizontally. Additional Smoke/CO Alarms may be required depending on the length, angle, etc. of the ceiling's slope. Refer to NFPA 72 for details on requirements for sloped or peaked ceilings.

HOW TO INSTALL THIS ALARM

MPORTANT! noke/CO Alarm was designed to be mounted on the ceiling or wall. It is not a tabletop device. You must install this device on the ceiling or wall as outlined below. Read "Where To Install This Alarm" before



Tools you will need: pencil, drill with 3/16" or 5mm drill bit, athead screwdriver, hammer.

ACAUTION! Do not connect this unit to any other alarm or auxiliary device. It is a

single-station unit that cannot be linked to other devices. Connecting anything else to this unit may prevent it from working properly. Do not install this unit over an electrical junction box. Air currents

around junction boxes can prevent smoke from reaching the sens ng chamber and prevent the unit from alarming. Only AC powered IMPORTANT!

If you want to lock the battery compartment, or lock the Smoke/CO

Alarm to the mounting bracket, please read the "Optional Locking Features" section in the "Programming Guide" attachment before you Alarms" for details. begin installation. 1. Hold base firmly and twist the mounting bracket counterclockwise (left) to separate it from the unit.

Hold the mounting bracket against the ceiling (or wall) so the vertical mounting slot is aligned in the 12 o'clock position and trace around the inside of the mounting slots (vertical and horizontal mounting) 3. Put the unit where it won't get covered with dust when you drill the

4. Using a 3/16" (5 mm) drill bit, drill a hole through the center of the oval outlines you traced.

5. Insert the plastic screw anchors (in the plastic bag with screws) into the holes. Tap the screw anchors gently with a hammer, if necessary, until they are flush with the ceiling or wall.

6. Line the mounting bracket up over the plastic screw anchors. 7. Screw the mounting bracket to the ceiling or wall through the mounting

slots using the two screws provided. Before attaching the Alarm to the bracket insert the two (2) AA batteries (included) into the battery compartment. Match the terminals on the end of the battery with the terminals or the unit. Match "+" to "+" and " to "-." If the batteries are not fully inserted, the unit

cannot receive battery power. NOTE: The unit may beep briefly when you install the batteries. This is normal. The GREEN Light flashes about every 60 seconds when the unit is receiving battery power AWARNING!

The battery door will resist closing unless batteries are installed. This warns you the unit will not operate without batteries 9. Attach the Smoke/CO Alarm to the mounting

bracket. Line up the guides on the alarm's base with the guides on the mounting bracket.

When guides are lined up, turn the base bracket. Line up the guides on the alarm's When guides are lined up, turn the base clockwise (right) until it snaps into place. NOTE: Once the Smoke Alarm is snapped onto the mounting bracket, you can rotate the Smoke Alarm to adjust the alignment.

10. Test the Smoke/CO Alarm. See "Weekly Testing" for details.

IF YOUR SMOKE/CO ALARM SOUNDS WHAT TO DO FIRST-IDENTIFY THE TYPE OF ALARM

Type of Alarm What You See and Hear monoxide in [Location, example: "Kitchen"]. Evacuate. Horn: 4 beeps, pause, 4 beeps, voice Power/Smoke LED: Off CO LED: Flashes Red Voice: "Warning, evacuate smoke in [Location, example: "Kitchen"]. Evacuate."

Horn: 3 beeps, pause, 3 beeps, voice

Power/Smoke LED: Flashes Red

CO LED: Off

IF THE CO ALARM SOUNDS

"ALARM-MOVE TO FRESH AIR If you hear the CO alarm horn and the CO red light is flashing everyone to a source of fresh air

DO NOT remove the batteries!

AWARNING!

Actuation of your CO Alarm indicates the presence of carbon monoxide (CO) which can kill you. In other words, when your CO Alarm sounds, you must not ignore it!

IF THE CO ALARM SIGNAL SOUNDS:

1. Operate the Test/Silence button. 2. Call your emergency services, fire department or 911. Write down the number of your local emergency service here

3. Immediately move to fresh air—outdoors or by an open door or window. Do a head count to check that all persons are accounted for Do not re-enter the premises, or move away from the open door or window until the emergency services responder has arrived, the premises have been aired out, and your CO Alarm remains in its normal condition

4. After following steps 1-3, if your CO Alarm reactivates within a 24-hour period, repeat steps 1-3 and call a qualified appliance technician to investigate for sources of CO from fuel-burning equipment and appliances, and inspect for proper operation of this equipment. If problems are identified during this inspection have the equipment serviced immediately. Note any combustion equipment not inspected by the technician, and consult the manufacturers' instructions, or contact the manufacturers directly, for more information about CO safety and this equipment. Make sure that motor vehicles are not, and have not, been operating in an attached garage or adjacent to the residence. Write down the number of a qualified appliance

NOTE: A qualified appliance technician is defined as "a person, firm, corporation, or company that either in person or through a representative, is engaged in and responsible for the installation, testing, servicing, or replacement of heating, ventilation, air conditioning (HVAC) equipment, combustion appliances and equipment, and/or gas fireplaces or other decorative combustion equipment

AFTER AN ALARM After the emergency responders arrive, the premises aired out, and your CO

Alarm remains in its normal condition, you can check what the highest carbor monoxide level sensed was: Alarm Will Say: Action:

Press & Hold Test Button	"Highest carbon monoxide level was ppm. Please see manual." "To clear highest carbon monoxide level, press and hold test button now."
Press & Hold Test Button, if you would like to clear the highest level sensed.	"Highest carbon monoxide level cleared."
If you would like to keep the highest level in memory, do not press anything.	Alarm will say nothing.

IF THE SMOKE ALARM SOUNDS RESPONDING TO AN ALARM

AWARNING!

- If the unit alarms and you are not testing the unit, it is warning you
 of a potentially dangerous situation that requires your immediate attention. NEVER ignore any alarm. Ignoring the alarm may result in
- iniury or death. Never remove the batteries from a battery operated Smoke/CO Alarm to stop an unwanted alarm (caused by cooking smoke, etc.). Removing batteries disables the alarm so it cannot sense smoke, and removes

your protection. Instead open a window or fan the smoke away from

- unit. The alarm will reset automatically. . If the unit alarms get everyone out of the house immediately
- · Get out of the house as quickly as possible. Don't stop to get dressed or collect anything.
- Feel doors with the back of your hand before opening them
- If a door is cool, open it slowly. Don't open a hot door. Keep doors and windows closed, unless you must escape through them.
- Meet at your planned meeting place outside your home
- Call the Fire Department as soon as possible from outside. Give your address, then your name.

• Contact your Fire Department for ideas on making your home safer.

AWARNING!

Never remove the batteries to quiet an unwanted alarm. Removing the batteries disables the alarm and removes your protection

identify and correct the problem. Do not use the Silence Feature in emergency situations. It will not correct a CO problem or extinguish a fire. The Silence Feature can temporarily quiet an unwanted alarm for several minutes. You can silence this Smoke/CO Alarm two ways:

2. Using Your Remote Control: Standing no further than 20 feet (6 meters)

After the Test/Silence or remote control button is released, the Red LED blinks during the silence mode.

When the Smoke Alarm is Silenced The Smoke Alarm will remain silent for up to 15 minutes, then return to

SILENCING THE LOW BATTERY WARNING

1. Manually: Press the Test/Silence button on the alarm cover. 2. Using Your Remote Control: Standing no further than 20 feet (6 meters) away from the Smoke/CO Alarm, aim your IR remote at the Alarm and press the CHANNEL or VOLUME button for at least 3-5 seconds.

Once the low battery warning "chirp" silence feature is activated, the unit continues to flash the Green light twice a minute for 8 hours. After 8 hours, the low batterv "chiro" will resume. Replace the batteries as soon as possible; this unit will not operate without battery power!

WEEKLY TESTING

resume (LED flashes and unit sounds "chirp" once a minute).

AWARNING! NEVER use an open flame of any kind to test this unit. You might accidentally damage or set fire to the unit or to your home. The built-in test switch accurately tests the unit's operation as required by Underwriters Laboratories, Inc. (UL). NEVER use vehicle exhaust

Exhaust may cause permanent damage and voids your warranty. DO NOT stand close to the Alarm when the horn is sounding

It is important to test this unit every week to make sure it is working

properly. Using the test button is the recommended way to test this Smoke/CO Alarm.

rm cover until Alarm Voice says "Testing" (typically 3-5 seconds). 2. Using Your Remote Control: Standing no further than

If the Alarm does not respond to your remote control, there may be an obstruction between you and the Alarm, you may be standing too far away, or your remote control may not be compatible

pause, 3 beeps. The Alarm **Voice** will say "Warning, evacuate smoke in [Location, example: "Kitchen"]. Evacuate." The **Power/Smoke LED** flashes Red and the CO LED will be Off. Next the Horn will sound 4 beeps, pause, 4 beeps. The Alarm Voice

• The Alarm Voice will say "Testing." The Horn will sound 3 beeps,

will say "Warning, evacuate carbon monoxide in [Location, example: "Kitchen"]. Evacuate." The **Power/Smoke LED** will be Off and the **CO LED** flashes Red.

Use only the replacement batteries listed below. The unit may not operate properly with other batteries. Never use rechargeable batteries since they may not provide a constant charge. · Test it at least once a week.

since they may damage the unit. If the Smoke/CO Alarm becomes contaminated by excessive dirt, dust

• Relocate the unit if it sounds frequent unwanted alarms. See "Where This Alarm Should Not Be Installed" for details.

Choosing a replacement battery:

IMPORTANT! Actual battery service life depends on the Smoke/CO Alarm and the environment in which it is installed. All the batteries specified above are acceptable replacement batteries for this unit. Regardless of the manufacturer's suggested battery life, you MUST replace the battery immediately once the unit starts

Open the battery compartment.

snap completely into the battery compar Match the terminals on the ends of the batteries with the terminals on the unit.

by using your remote control.

PARTS OF THIS SMOKE/CO ALARM Test/Silence Button and Remote

WHAT TO DO IN CASE OF FIRE • Don't panic; stay calm. Follow your family escape plan.

· Cover your nose and mouth with a cloth (preferably damp). Take short, shallow breaths.

and do a head count to make sure everybody got out safely.

· Never go back inside a burning building for any reason.

AWARNING! Alarms have various limitations. See "General Limitations of Smoke/CO

USING THE SILENCE FEATURES

The Silence Feature is intended to temporarily silence the horn while you

1. Manually: Press the Test/Silence button on the alarm cover for at least

If the Alarm does not respond to your remote control, there may be an obstruction between you and the Alarm, you may be standing too far away, or your remote control may not be compatible.

When the CO Alarm is Silenced The CO alarm will remain silent for normal operation. After 4 minutes, if CO levels remain

potentially dangerous the horn will start sounding again.

This silence feature can temporarily quiet the low battery warning "chirp" for up to 8 hours. You can silence the low battery warning "chirp" two ways:

To deactivate this feature: Press the Test/Silence button or use your remote control again. The unit will go into Test Mode and the low battery warning will

If the smoke has not cleared-or

will go back into alarm.

tinues to increase-the device

Exposure at close range may be harmful to your hearing. When testing, step away when horn starts sounding. ACAUTION!

You can test this Smoke/CO Alarm two ways: Manually: Press and hold the Test/Silence button on the Alarm cover until Alarm Voice savs "Testing" (typically)

20 feet (6 meters) away from the Smoke/CO Alarm, aim your IR remote at the Alarm and press the CHANNEL or VOLUME button until Alarm **Voice** says "Testing".

If the unit does not alarm, make sure the batteries are correctly installed, and test again. If the unit still does not alarm, replace it immediately

During testing, you will see and hear the following sequence:

REGULAR MAINTENANCE This unit has been designed to be as maintenance-free as possible, but there are a few simple things you must do to keep it working properly. AWARNING!

• Clean the Smoke/CO Alarm at least once a month; gently vacuum the outside of the Smoke/CO Alarm at least orice a month, gently vacuum the outside of the Smoke/CO Alarm using your household vacuum's soft brush attachment. A can of clean compressed air (sold at computer or office supply stores) may also be used. Follow manufacturer instructions for use. Test the Smoke/CO Alarm. Never use water, cleaners or solvents also the use of the produced the unit.

and/or grime, and cannot be cleaned to avoid unwanted alarms, replace

Your Smoke/CO Alarm requires two standard AA batteries. The following batteries are acceptable as replacements: Eveready Energizer E91. These batteries are available at many local retail stores.

'chirping" (the "low battery warning"). To replace the batteries (without removing Alarm from the ceiling or wall):

2. Press tabs A and B as shown in the diagram and remove each battery. 3. Insert the new batteries, making sure they

4. Close the battery compartment, and then test the unit by pressing the Test/Silence button or

 Dangers, Warnings, and Cautions alert you to important operating instructions or to potentially hazardous situations. Pay special attention to these items.



STEP BY STEP GUIDE TO PROGRAMMING THIS ALARM AND USING THE OPTIONAL LOCKING FEATURES

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PROGRAMMING THE ALARM FOR THE FIRST TIME

Action:	Alarm Will Say:
Insert batteries (2, AA batteries).	"Welcome, First Alert Carbon Monoxide and Smoke Alarm. No location programmed. To select location, press and hold test button now."
Press & Hold Test Button, or use your IR remote control's channel or volume button, if you would like to program the location. Release button after Alarm responds.	"To save location, press and hold test button after location is heard." Alarm will speak list of locations (see below).
After you hear the location of where you are placing the Alarm, Press & Hold the Test Button or use your IR remote control's channel or volume button.	"[Location, example "Kitchen"] location saved." If no location is chosen: "No location saved."
Your Alarm has now been programmed for the location of your	

Your Alarm has now been programmed for the location of your

Available locations:

Rasement Child's Bedroom Dining Room Family Room Guest Bedroom Hallway

Kitchen Livina Room Master Bedroom No Location Office Utility Room

IF YOU ARE CHANGING THE BATTERIES

Action:	Alarm Will Say:
Insert batteries (2, AA batteries).	"Welcome, First Alert Carbon Monoxide and Smoke Alarm. Location [If location already programmed, example "Kitchen"] programmed. To select location, press and hold test button now."
Press & Hold Test Button, or use your IR remote control's channel or volume button, if you would like to change the location.	"To change location, press and hold test button after location is heard." Alarm will speak list of locations (see above).
3. After you hear the location of where you are placing the Alarm, Press & Hold the Test Button or use your IR remote control's channel or volume button.	"[Location, example "Kitchen"] location saved." If no location is chosen: "No location saved."

USING THE SILENCE FEATURES AWARNING!

Never remove the batteries to quiet an unwanted alarm. Removing the batteries disables the alarm and removes your

The Alarm Silence Feature can temporarily quiet an unwanted alarm for several minutes. You can silence the Smoke/CO Alarm two wavs:

- Manually: Press the Test/Silence button on the alarm cover for at least 3-5 seconds.
- Using Your Remote Control: Standing no further than 20 feet (6 meters) away from the Alarm, aim your IR remote at the Alarm and press the CHANNEL or VOLUME button for

After the Test/Silence or remote control button is released, the Alarm Voice will say "Horn silenced, detector active

The Low Battery Warning Silence Feature can temporarily quiet the low battery warning "chirp" for up to 8 hours. You can silence the low battery warning "chirp" two ways:

- Manually: Press the Test/Silence button on the alarm cover for at least 3-5 seconds
- Using Your Remote Control: Standing no further than 20 feet (6 meters) away from the Alarm, aim your IR remote at the Alarm and press the CHANNEL or VOLUME button for at least 3-5 seconds.

Once the low battery warning "chirp" silence feature is activated, the unit continues to flash the Green light twice a minute for 8 hours. After 8 hours, the low battery "chirp" will resume. Replace the batteries as soon as possible; this unit will not operate without battery power! 1

WHAT YOU WILL SEE AND HEAR WITH THIS ALARM

Under Normal Operations

Power/Smoke LED: Flashes Voice: Silent Green once a minute Horn: Silent CO LED: Off

When You Test the Alarm

Voice: "Testing." "Warning, evacuate smoke in [Location, example: "Kitchen"]. Evacuate."

Horn: 3 beeps, pause, 3 beeps, voice Power/Smoke LED: Flashes Red

CO LED: Off followed by

Voice: "Warning, evacuate carbon monoxide in [Location, example: "Kitchen"]. Evacuate."

Horn: 4 beeps, pause, 4 beeps, voice

Power/Smoke LED: Off CO LED: Flashes Red

If Battery Becomes Low or is Missing

Voice: "Replace battery in [Location, example "Kitchen"]."

Repeated every 5 hours Horn: chirps once a minute

Power/Smoke LED: Flashes approximately once a minute CO LED: Off

If Alarm is Not Operating Properly

Voice: "Detector error in [Location, example "Kitchen"], please see manual." Repeated every 5 hours

Horn: Three rapid chirps every minute

Power/Smoke LED: Flashes approximately once a minute CO LED: Off

Alarm Levels of CO are Detected

Voice: "Warning, evacuate carbon monoxide in [Location, example: "Kitchen"]. Evacuate."

Horn: 4 beeps, pause, 4 beeps, voice*

Power/Smoke LED: Off CO LED: Flashes Red

*NOTE: If unit goes into CO alarm, the regular 4 beeps-brief pause cycle will repeat for four minutes. After four minutes, the pause will increase to one minute.

Smoke is Detected

Voice: "Warning, evacuate smoke in [Location, example:

"Kitchen"]. Evacuate.'

Horn: 3 beeps, pause, 3 beeps, voice Power/Smoke LED: Flashes Red

CO LED: Off

Smoke Alarm is Silenced

Voice: "Horn silenced. Detector active.' Horn: Off

Power/Smoke LED: Flashes Red CO LED: Off

The Smoke Alarm will remain silent for up to 15 minutes, then return to normal operation.

If the smoke has not cleared-or continues to increase-the device will go back into alarm.

CO Alarm is Silenced

Voice: "Horn silenced. Detector active. Horn: Off

Power/Smoke LED: Off

CO LED: Flashes Red The CO Alarm will remain

silent for up to 4 minutes. After 4 minutes, if CO

levels remain potentially 3. When you attach the dangerous the horn will start sounding again.

IF YOUR SMOKE/CO ALARM SOUNDS

If the CO Alarm sounds (4 beeps, pause, 4 beeps, "Warning, evacuate carbon monoxide in [Location]. Evacuate.

- 1. Operate the Silence Feature.
- Call your emergency services, fire department or 911. Write down the number of your local emergency service here:
- 3. Immediately move to fresh air—outdoors or by an open door or window. Do a head count to check that all persons are accounted for. Do not re-enter the premises, or move away from the open door or window until the emergency services responder has arrived, the premises have been aired out, and your CO Alarm remains in its normal condition.
- 4. After following steps 1-3, if your CO Alarm reactivates within a 24-hour period, repeat steps 1-3 and call a qualified appliance technician to investigate for sources of CO from fuel-burning equipment and appliances, and inspect for proper operation of this equipment.
- 5. After the emergency responders arrive, the premises aired out, and your CO Alarm remains in its normal condition, you can check what the highest carbon monoxide level sensed was:

Action:	Alarm Will Say:
1. Press & Hold Test Button	"Highest carbon monoxide level was ppm. Please see manual." To clear highest carbon monoxide level, press and hold test button now."
Press & Hold Test Button, if you would like to clear the highest level sensed.	"Highest carbon monoxide level cleared."
If you would like to keep the highest level in memory, do not press anything.	Alarm will say nothing.

OPTIONAL LOCKING FEATURES

The optional locking features are designed to discourage unauthorized removal of the batteries or alarm. It is not necessary to activate the locks in single-family households where unauthorized battery or alarm removal is not a concern.

This Smoke/CO Alarm has two separate locking features: one to lock the battery compartment, and the other to lock the Smoke/CO Alarm to the mounting bracket. You can choose to use either feature independently, or use them both.

Tools you will need: • Needle-nose pliers or utility knife • Standard flathead screwdriver.

Both locking features use locking pins, which are molded into the mounting bracket. Depending on which locking features you use, remove one or both pins from the mounting bracket using needle-nose pliers or

IMPORTANT!

To permanently remove either locking pin, insert a flathead screwdriver between the locking pin and the lock, and pry the pin out of the lock.

TO LOCK THE BATTERY COMPARTMENT

Do not lock the battery compartment until you activate the battery and test the Smoke/CO Alarm.

- 1. Install the batteries before attaching the Alarm to the bracket. Insert the two (2) AA batteries (included) into the battery compartment. Match the terminals on the end of the battery with the terminals on the unit.

 Match "+" to "+" and "-" to "-." If the batteries are not fully inserted, the unit cannot receive battery power.
- 2. Push and hold test button until the alarm sounds

If the unit does not alarm during

the mounting bracket.

testing, DO NOT lock the battery

compartment! Install a new battery

IMPORTANT!

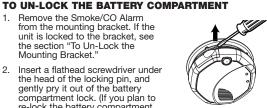


and test again. If the unit still does not alarm, replace it immediately. 3. Using needle-nose pliers or a utility knife, detach one locking pin from

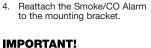
Push the locking pin through the hole near the battery door latch on the back of the Smoke/CO Alarm.



When replacing the batteries, always test the Smoke/CO Alarm before re-locking the battery compartment.







1. Remove the Smoke/CO Alarm

the section "To Un-Lock the

Insert a flathead screwdriver under the head of the locking pin, and

gently pry it out of the battery

To re-lock the battery compart-

reinsert locking pin in lock.

ment, close the battery door and

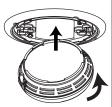
compartment lock. (If you plan to re-lock the battery compartment,

Mounting Bracket.'

save the locking pin.)

from the mounting bracket. If the

unit is locked to the bracket, see



TO LOCK THE MOUNTING BRACKET:

- 1. Using needle-nose pliers, detach one locking pin from the mounting bracket
- 2. Insert the locking pin through the hole on the back of the Smoke/CO Alarm as shown in the diagram.
- Smoke/CO Alarm to the mounting bracket, the locking nin's head will fit into a notch on the bracket.



TO UN-LOCK THE MOUNTING BRACKET:

- Insert a flathead screwdriver into the rectangular cut-out on the mounting bracket nearest to the locking pin.
- Pry the Smoke/CO Alarm away from the bracket by pushing up on the screwdriver and turning the Smoke/CO Alarm counterclockwise (left) at the same time.



WEEKLY TESTING

AWARNING!

- NEVER use an open flame of any kind to test this unit. You might accidentally damage or set fire to the unit or to your home. The built-in test switch accurately tests the unit's operation as required by Underwriters Laboratories, Inc. (UL). If you choose to use an aerosol smoke product to test the Alarm, be certain to use one that has been Listed to Underwriters Laboratories, Inc. Safety Standards, and use it only as directed. Use of non-UL Listed products or improper use of UL Listed products may affect the Alarm's sensitivity, and may void your warranty. NEVER use vehicle exhaust! Exhaust may cause permanent damage and voids your warranty.
- DO NOT stand close to the Alarm when the horn is sounding. Exposure at close range may be harmful to your hearing. When testing, step away when horn starts sounding.

It is important to test this unit every week to make sure it is working properly. Using the test button or remote control is the recommended way to test this Smoke/CO Alarm. You can test this Smoke/CO Alarm two ways:

- 1. Manually: Press and hold the Test/Silence button on the Alarm cover until Alarm Voice says "Testing" (typically 3-5
- 2. Using Your Remote Control: Standing no further than 20 feet (6 meters) away from the Smoke/CO Alarm, aim your IR remote at the Alarm and press the CHANNEL or VOLUME button until Alarm Voice says "Testing".

During testing, you will see and hear the following sequence:

- The Alarm Voice will say "Testing." The Horn will sound 3 beeps, pause, 3 beeps. The Alarm **Voice** will say "Warning, evacuate smoke in [Location, example: "Kitchen"]. Evacuate." The **Power/Smoke LED** flashes Red and the **CO LED** will be
- Next the Horn will sound 4 beeps, pause, 4 beeps. The Alarm Voice will say "Warning, evacuate carbon monoxide in ocation, example: "Kitchen"]. Evacuate." The Power/Smoke **LED** will be Off and the **CO LED** flashes Red.

If the Alarm does not respond to your remote control, there may be an obstruction between you and the Alarm, you may be standing too far away, or your remote control may not be compatible

If the unit does not alarm, make sure the batteries are correctly installed, and test again. If the unit still does not alarm, replace it immediately.

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